MODEL
THP800C

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Contents

Introduction **2-4**
Specifications 2
Features 4

Installation **4-21**
Wiring 4
Mounting 9
Pointing Speakers 18
Setting Switches 20

Applications **21-34**
Stereo 21
Home Theater 23

Limited Lifetime Warranty ..... **Back Page**

WARNING: Do Not Exceed Speaker's Rated Power! Damage to Speaker and/or Amplifier Could Occur.

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Introduction

Congratulations and thank you for purchasing ELAN TheaterPoint speakers. The TheaterPoint speaker line has been designed specifically to match the needs of dedicated Home Theater and critical listening areas within the home. Using state-of-the-art materials like woven Kevlar fiber cones, neodymium magnets, and aluminum phase plugs each speaker seamlessly reproduces movie soundtracks and music with the clarity and precision demanded in today's multi-channel environments. Advanced features such as three-way EQ switches, bass limiting circuits, custom Q crossovers, and pivoting tweeters allow flexibility and customization for virtually any circumstance where accurate audio reproduction is paramount.

TheaterPoint speakers have been designed as a family. Each speaker complements the others. All use similar components to create a coherent audio experience no matter what the content. TheaterPoint speakers are also designed to provide custom solutions for virtually any multi-room environment. In-wall, in-ceiling, on-wall, and free-standing speakers combine to create the exact setup that each home requires. No matter which combination is appropriate, TheaterPoint speakers provide sonic accuracy and reproduce all audio sources to ELAN's exacting standards.

Specifications

THP800C (Patent Pending)

System Type ..... Three-Way Focused Sound Field w/ Pivoting Tweeter

Woofer
- Cone ..... 8" Woven Kevlar
- Magnet ..... Ceramic
- Surround ..... Butyl Rubber
- Basket ..... Cast Aluminum

Midrange
- Cone ..... 2.5" Woven Kevlar
- Magnet ..... Shielded Neodymium
- Surround ..... Butyl Rubber
- Basket ..... Cast Aluminum

Tweeter
- Diaphragm ..... 3/4" (19mm) Pivoting Woven Kevlar Dome
- Magnet ..... Shielded Neodymium

Crossover ..... 2nd Order Custom Q @ 300Hz and 4kHz

Switches ..... EQ (Bright/Neutral/Warm) & Bass Limiting

Nominal Impedance ..... 6 Ohms

Sensitivity 89dB

Frequency Response ..... 35Hz to 22kHz

Power Handling ..... 100 Watts RMS

Mounting
- Frame Dimensions ..... 12 1/8" (308mm)
- Cutout Dimensions ..... 11 1/4" (286mm)
- Mounting Depth ..... 7" (178mm)
- Weight ..... 11 lbs (5kg)

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Features

- **8 Inch Woven Kevlar Woofer**
- **2 1/2” Woven Kevlar Cone Mid-Range w/ Neodymium Magnet**
- **Kevlar Fiber Dome Pivoting Tweeters w/ Neo Magnet & Fluid Cooling**
- **360 Degree Rotation**
- **30 Degree Off-Axis Woofer**
- **Cast Aluminum Basket**
- **Custom Q High Order Crossovers**
- **Inverted Butyl Rubber Surrounds**
- **EQ Switch**
- **Bass Limiting Switch**
- **Glass-Filled ABS Frame w/ Dog-Ear Mounting**
- **Single Screw Locking Mechanism**
- **‘TheaterPoint’ Pointing Laser Included**
- **Perforated, Rust-Resistant Grille**
- **Easy-To-Paint White Finish**
- **Available as Single Speaker**

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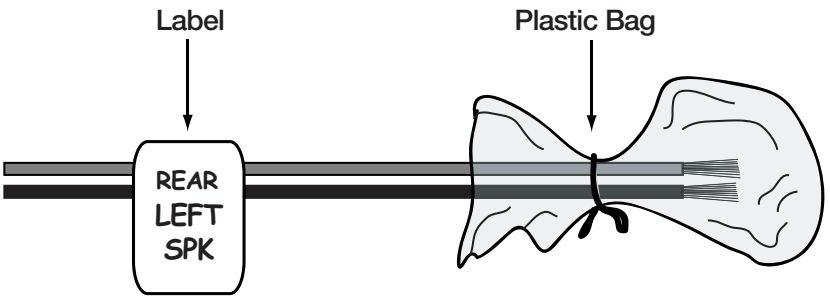
Installation

The Installation process is divided into two distinct processes, wiring and mounting. After carefully considering the intended application (defining a Listening Area, Home Theater/Stereo, etc.) specific mounting locations can be decided upon. Once the specific locations are determined, installation can commence.

Wiring

Before actually running any wire or cable, take the time to look around each room or area of the house and plan the wire paths for maximum efficiency. Look for routes through uncluttered parts of the stud wall or ceiling that allow you to group all low-voltage wires wherever possible. It is a good practice to label both ends of all cables and to protect wires by tying a plastic bag over the ends.



Note 1: *Low voltage wiring must be run in accordance with the National Electrical Code as well as any other applicable provisions of the local building codes in your area. In some cases (such as commercial installations), running the wire in conduit may be required. If you have any questions concerning the wiring of speakers in your home, contact your local building and inspection department.*

Note 2: *It is recommended that you use quality CL2 or CL3 rated stranded speaker wire when installing ELAN TheaterPoint speakers. Solid-core "Romex" type wire is not acceptable! Use at least 16AWG speaker wire for runs up to 100 feet, and at least 14 AWG speaker wire for runs up to 200 feet. If you must cross high-voltage lines, always do so at a 90 degree angle to avoid audible hum through the speakers!*

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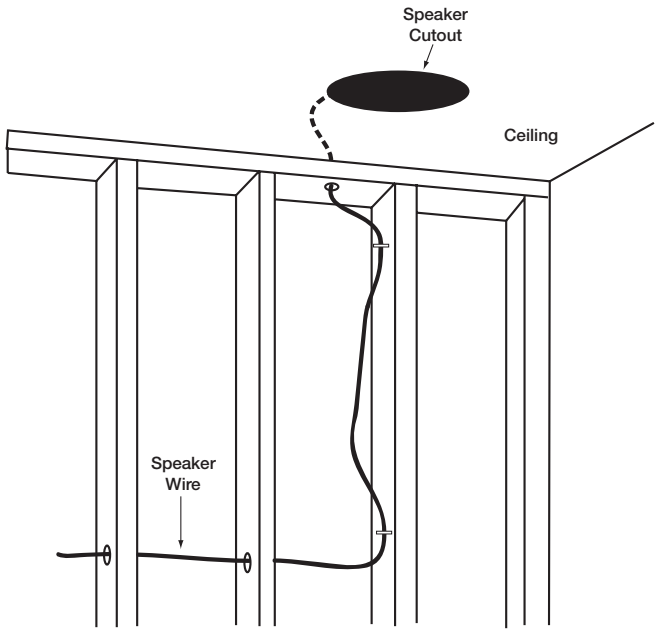
Wiring (cont'd)
The audio/speaker cable runs should be routed from the head-end location to in-wall keypad, IR receiver, or volume control locations (if applicable), then to the speaker rough-in brackets (if used). At the speaker locations, securely fasten the speaker wire to the speaker rough-in bracket.



Planning For Upgrades/Access

Route speaker wires through keypad gang box locations to facilitate access to the speaker wires. In areas using volume controls, it is advantageous to run Cat-5 wire to each volume control location to make it easy to upgrade to keypads or touch panels in the future.

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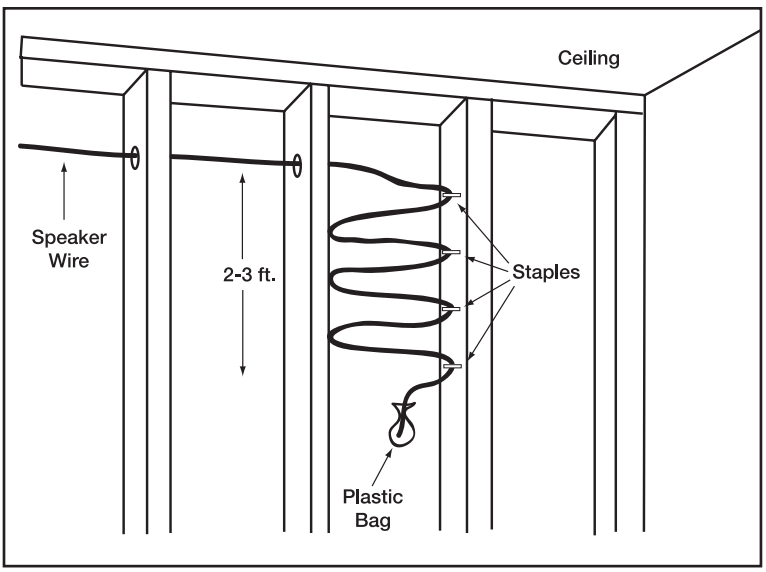
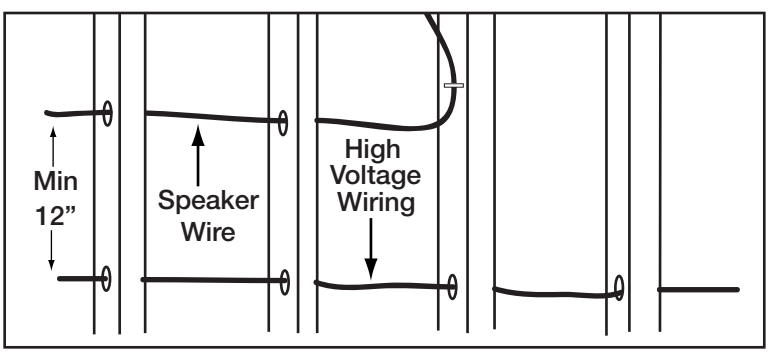
Wiring (cont'd)
If not using speaker rough-in brackets, staple speaker wire runs in a loose zigzag between the studs where the speaker is to be mounted to make it easier to find the cable after the drywall is installed. Zig-zagging the cable also allows flexibility in the placement of the speaker.

Note: *Do not run speaker wires closer than 12" from high voltage wires*





WARNING: Do Not Run Speaker Wires Through Holes Shared By High-Voltage Wiring!

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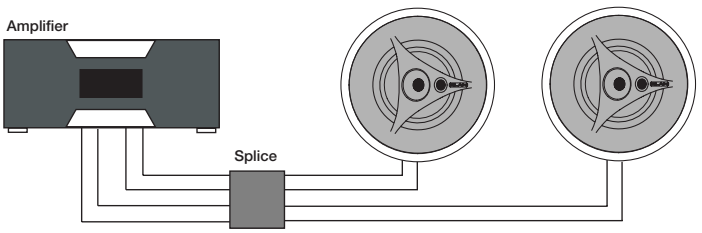
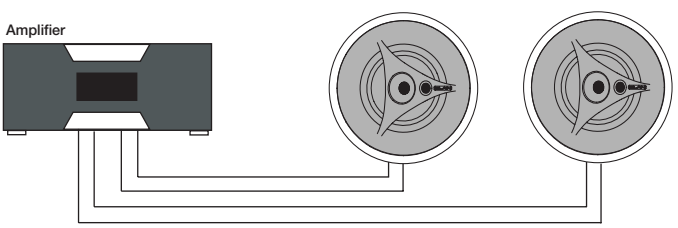
In-Ceiling Stereo Speaker Pairs

There are three common scenarios for connecting stereo speaker pairs to a distributed audio system:

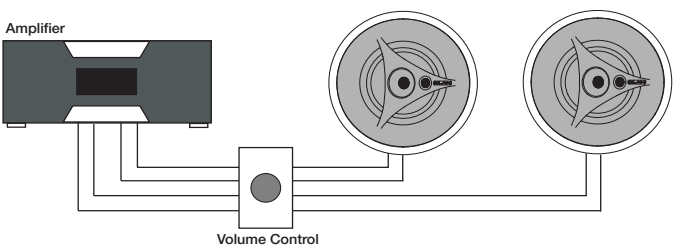
• One 4-conductor speaker wire runs from the amplifier to one speaker with two conductors connected. The second two conductors are spliced and connected to a 2-conductor speaker wire that runs to the second speaker.



• Two separate two-conductor speaker wires run from the amplifier to each stereo speaker.



• One four-conductor speaker wire runs from the amplifier to a stereo volume control, then one two-conductor speaker wire runs to each stereo speaker.



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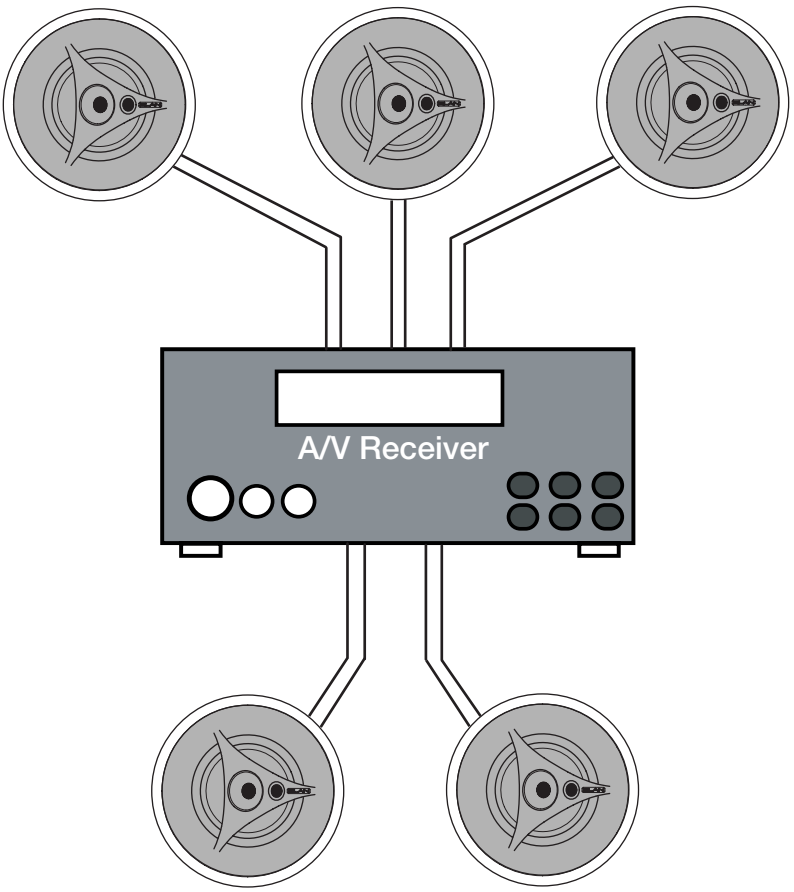
In-Ceiling Surround Speakers

Typically, Home Theater surround speakers are connected directly from the amplifier to the speakers without the use of a volume control.



WARNING: Turn Off Power to Amplifier Before Connecting Speakers!

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Mounting

Two situations that can exist when mounting in-ceiling speakers:

Pre-Construction - Installations that occur in new homes being built and in remodel situations where walls and/or ceilings will be exposed.

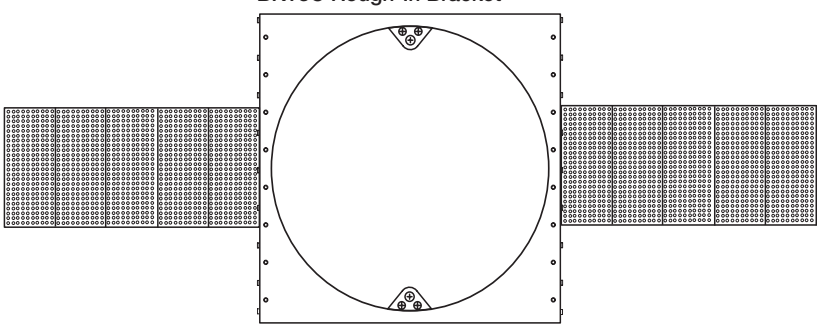
Retro-Fit - Installation that involve existing homes with walls and ceilings finished.

While the end result of either type of installation is similar, the process is quite different.

Pre-Construction

In a pre-construction installation, walls and ceilings are open with no drywall installed. This is desirable and allows the installer much greater access than in retro-fit applications. ELAN model BKT8C Rough-In Brackets are specifically designed to work with the THP800 and should be used whenever possible to reserve a neat hole in the drywall, ensuring proper placement of speakers and making trim-out and final installation neat and organized.

BKT8C Rough-In Bracket



Note: *THP800C is compatible with the BKT8C only. It is NOT compatible with the M•Series 8" in-ceiling rough-in bracket; the BKT800C.*

Referring to the floor plan marked with component locations, install all speaker rough-in brackets. Make sure that the bracket frame is facing out for drywall cutting accuracy. All rough-in brackets must be securely mounted to ceiling studs and cannot be installed after the drywall is up!

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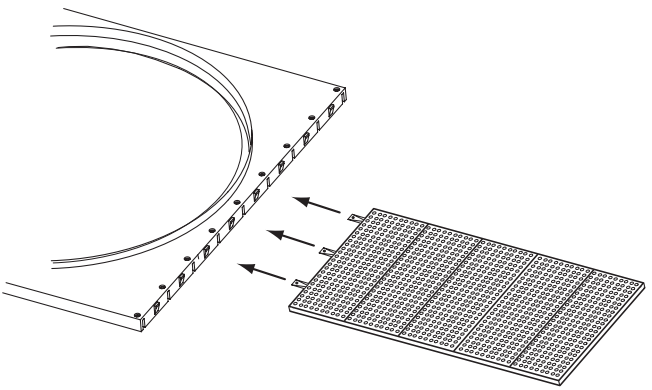
Mounting Rough-In Brackets

1. Decide on the installation location for the speakers.

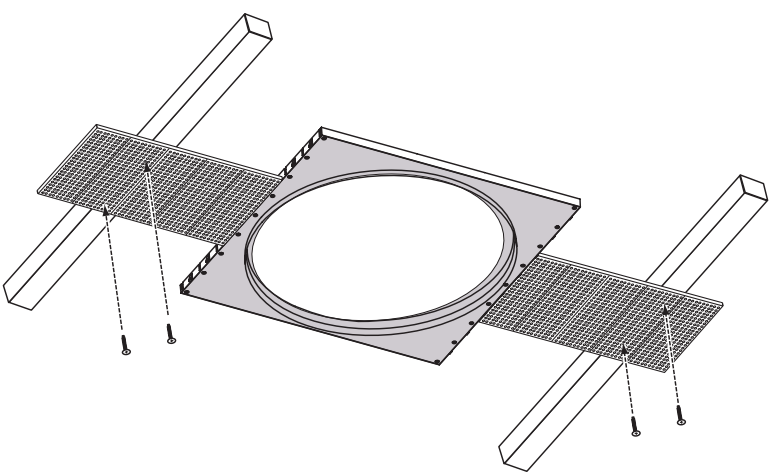
WARNING: Be sure mounting locations are clear of high-voltage wiring, pipes, or other obstructions.

2. Attach the Bracket Flanges to the Bracket Frame as shown.

Note: *Make sure the dimpled side of the flange faces OUT and interlocks with the frame from the rear.*



3. Secure the bracket assembly to the ceiling joists with flat-head screws or heavy-duty staples.



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Mounting Rough-In Brackets (cont'd.)

4. Once the drywall is installed, **carefully** and **accurately** cut out the speaker holes using a routing tool or similar device. A drywall professional may perform this step.

After the drywall is up and the the holes are cut, the Speaker Frame and Speaker Grille may be removed for painting (see **Painting** for more details). It is also possible to install only the speaker frame and speaker grille. Remove the speaker baffle until the jobsite is secure then replace it when the final installation is taking place.

WARNING: If Installing THP800C Speakers in 5/8" Drywall w/ Joists Spaced More Than 24" Apart, ELAN Recommends Using 1/4" Plywood to Brace the Speaker!

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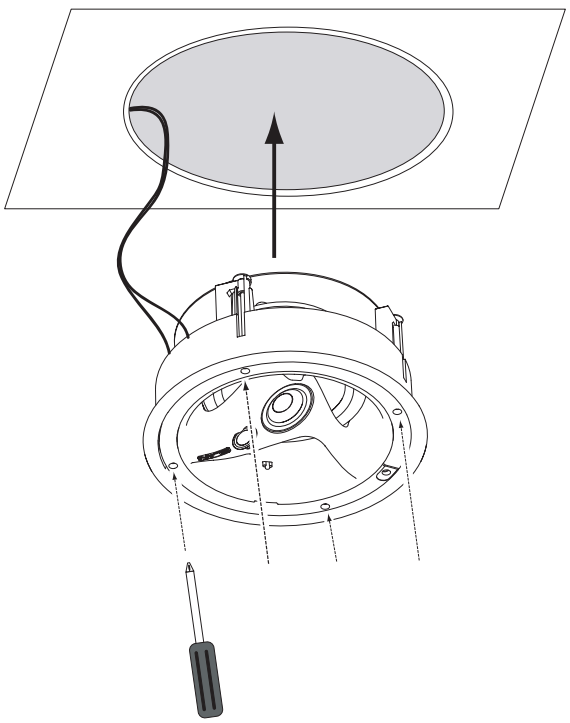
Mounting Speakers in Rough-In Brackets

1. Remove speaker grille and place speaker face down.
2. Locate the speaker wire and pull through the ceiling opening.
3. Connect the speaker wire. ***Be sure to observe correct polarity!***
4. Insert the speaker into the opening in the ceiling and **carefully** tighten each of the four clamping screws, alternating diagonally between each screw position to ensure proper fit.



5. Once the speaker is mounted in the ceiling, twist the baffle to point the mid-range driver at the listening area, then point the tweeter. See **Pointing Speakers** for details.
7. Set the EQ and Bass switch. See **Setting Switches** for details.
8. Replace the speaker grille.

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Retro-Fit

Retro-fit installations are more difficult to complete than pre-construction because walls and ceilings are intact. Typically wires must be fished into position through walls, floors and ceilings. Holes must be cut and speakers mounted directly in the ceiling with no rough-in brackets. ***Before cutting holes in any existing wall or ceiling surface, probe the cavity behind each speaker's installation location for obstructions!***

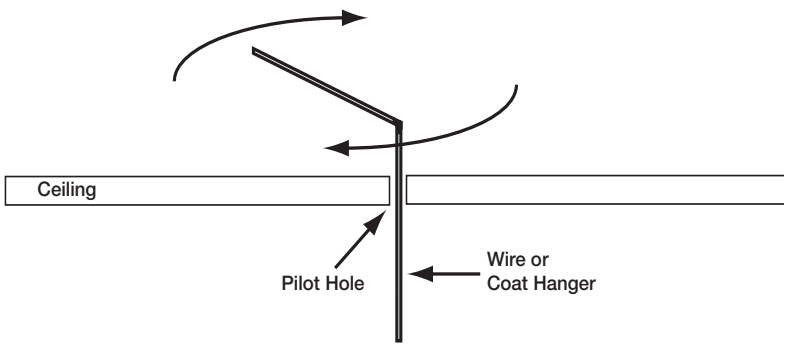
Cutting Speaker Openings in Ceiling-No Rough-in Brackets

1. Use a stud finder to locate the studs around the intended speaker location.

   Note: *A stud-finding device* **may not** *detect pipes, wiring, or other obstructions located behind the drywall.*

2. Use the inside portion of the speaker cutout template to confirm speaker placement.

3. Remove templates and drill or carefully punch a pilot hole in the ceiling. A bent piece of wire or a coat hanger may be use to probe the stud bay for obstructions. If you experience resistance of any kind— STOP! If any obstructions are detected, patch the pilot hole and try again in another location.



4. Once it has been determined that the cavity is free from obstruc tions, position the cutout template and use a pencil to lightly trace the perimeter of the template.

5. Cut the opening using a keyhole saw, drywall router, or razor knife.

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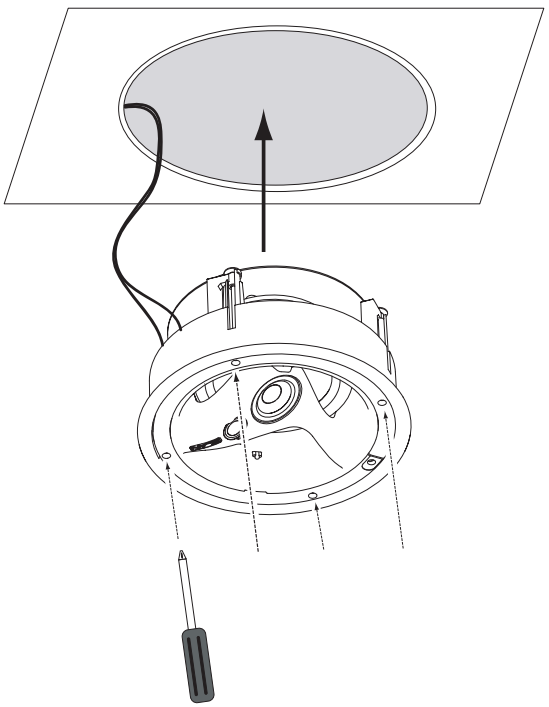
Mounting Speakers in Ceiling

1. Remove speaker grille and place speaker face down.
2. Locate the speaker wire and pull through the ceiling opening.
3. Connect the speaker wire. BE SURE TO OBSERVE CORRECT POLARITY!
4. Insert the speaker into the opening in the ceiling and carefully tighten each of the four clamping screws, alternating diagonally between each screw position to ensure proper fit.



5. Once the speaker is mounted in the ceiling, twist the baffle to aim the mid-range driver at the listening area. See **Pointing the Mid-Range** for details.
6. Aim the tweeter at the listening area. See **Pointing the Tweeter** for details.
7. Set the EQ switch. See **Setting Switches** for details.
8. Replace the speaker grille.

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Speaker Enclosures

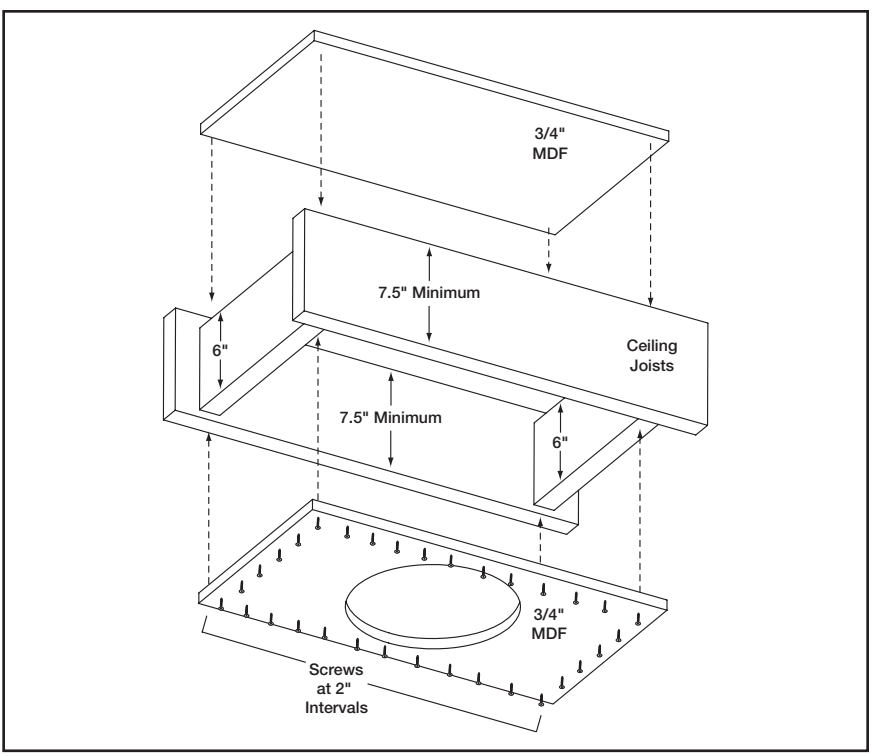
In certain applications, it may be desirable to build enclosures for TheaterPoint in-ceiling speakers. In these situations, use the guidelines presented below.

Note: *The THP800C is 7" deep. Provisions must be made for this depth when mounting the speaker in ceilings with 6" joists or less.*

2 x 6 Joists

When installing TheaterPoint in-wall speakers into a pre-construction environment using 2" x 6" (or greater) ceiling studs, airtight back boxes may be constructed. The following chart gives the aproximate volume of back boxes built for the THP800C. Measurements shown in the chart are outside dimensions. Back boxes are typically constructed of 2" x 6" lumber and 3/4" MDF (Medium Density Fiberboard) and should be made to fit between studs. Use glue or silicone sealant at all joints.

Speaker	Volume	Inside Dimensions	% Fill
THP800C	33 L (2030 cu. in.)	6 in. x 14.5 in. x 24 in.	75%



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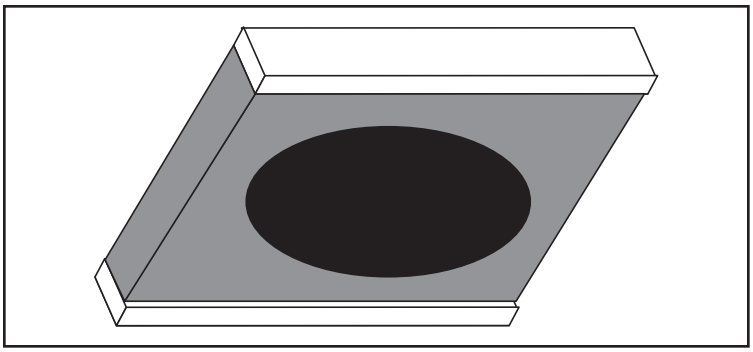
Speaker Enclosures (cont'd)
The completed enclosure should look similar to the drawing below. When designing an enclosure to dimensions other than what is listed in the chart on the previous page, ELAN recommends using a height to width ratio of 1:1.5 in order to reduce resonance. The dimensions shown in the chart take this into consideration.



Fill Material
It is important to use some type of material to fill the enclosure to the percentage indicated in the chart on the previous page (75% for the THP800C). This will reduce vibration and give the enclosure the characteristics necessary for optimum audio performance. ELAN recommends using fiberglass insulation or polyester fiberfill for this purpose.

Note: *Make sure that any fill material does not touch the speaker magnet or the back of the cone. Place fill material on outside edges of enclosure.*

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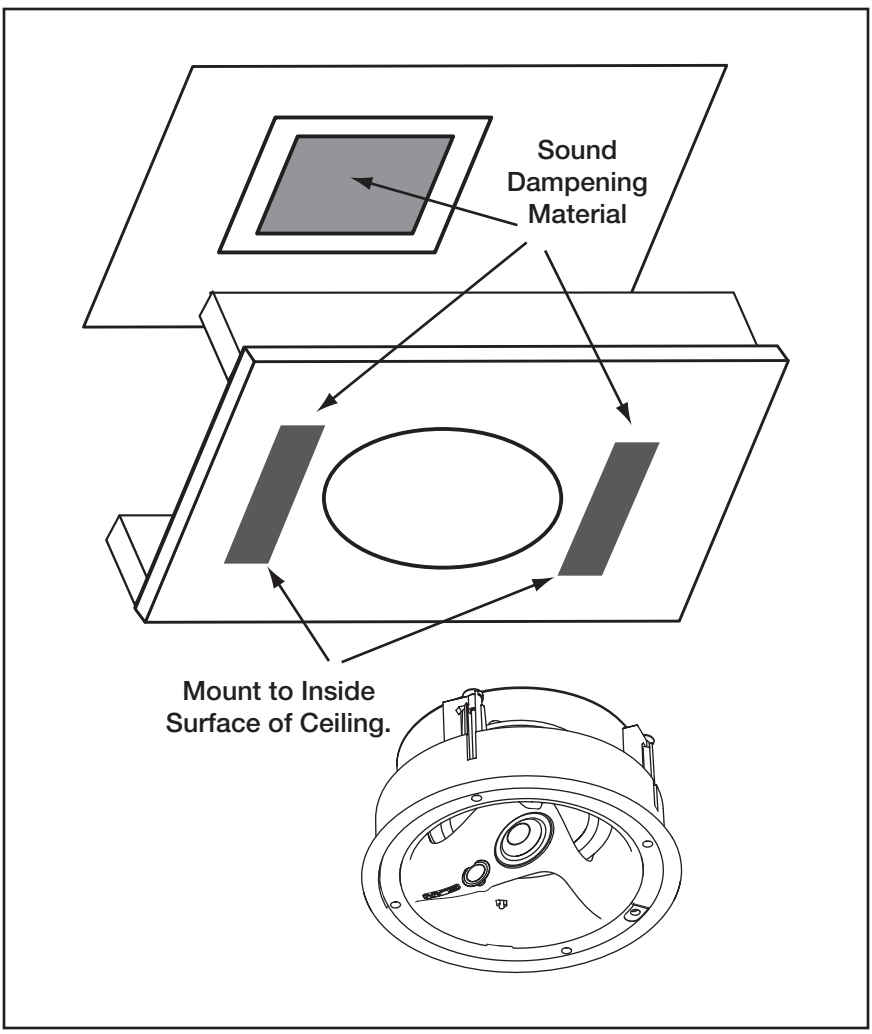
Sound Dampening Material

The use of sound dampening material such as Dynamat® can dampen bleed-through into adjoining rooms and improve the sound quality of in-wall or in-ceiling speakers by reducing vibrations. The diagram below shows a typical in-ceiling speaker installation using sound dampening material on the back wall and the baffle surface (the ceiling surface in which the speaker actually mounts). Additionally, there are products available that are specifically designed to reduce vibration in architectural speaker applications.



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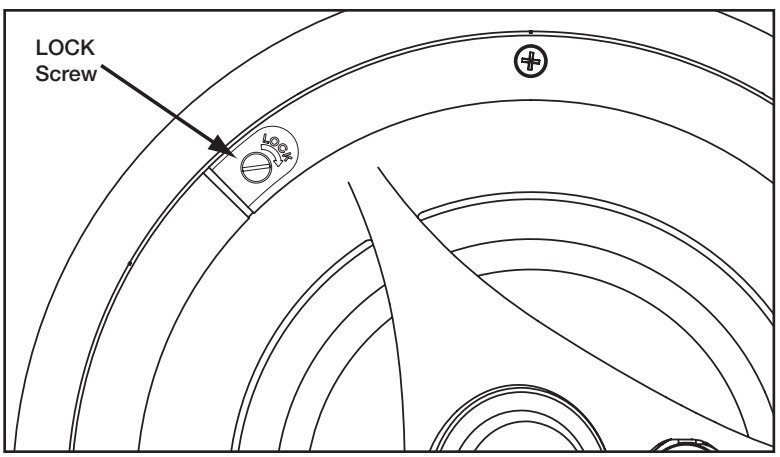
Pointing Speakers

TheaterPoint speakers are specifically designed to produce outstanding audio quality when properly placed in relationship to the listening area. Human hearing relies on mid-range and high frequencies to determine spatial direction (where a sound is coming from). Mid-range and high frequency drivers (tweeters) tend to produce narrow soundfields that sound much better when pointing directly at the listener whereas low frequency drivers (woofers) envelop much larger areas and tend to be more omnidirectional. The woofer fires downward, but the low frequencies it produces are not directional in nature. With this in mind, the THP800C's baffle rotates 360 degrees so that the mid-range and tweeter can point directly towards the listening position. The tweeter can be fine-tuned using ELAN's exclusive TheaterPointer Laser Pointing Device for pinpoint sonic accuracy in Home Theaters and critical listening applications.

Pointing the Mid-Range

Once the audio system is connected and the speakers have been completely installed (with the grilles off), it is time to point the mid-range driver at the listening area.

1. Ensure that the LOCK screw located on the speaker baffle is loosened by turning it counter-clockwise.



2. Twist the speaker baffle so that the angled mid-range driver is pointing in the desired direction. It may be easiest to utilize the bridge that the mid-range and tweeter are mounted on to physi cally turn the speaker.

3. Turn the LOCK screw clockwise to tighten the speaker baffle and lock it in place.

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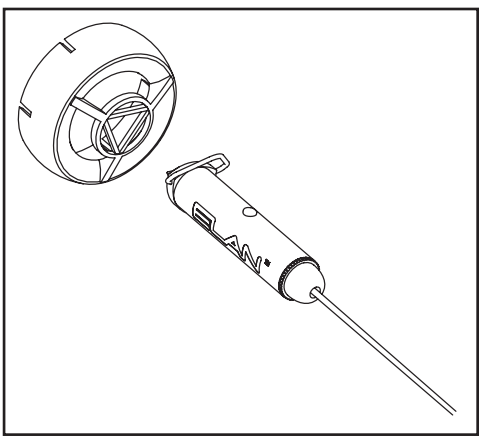
Pointing Tweeter

TheaterPointer Laser Pointer

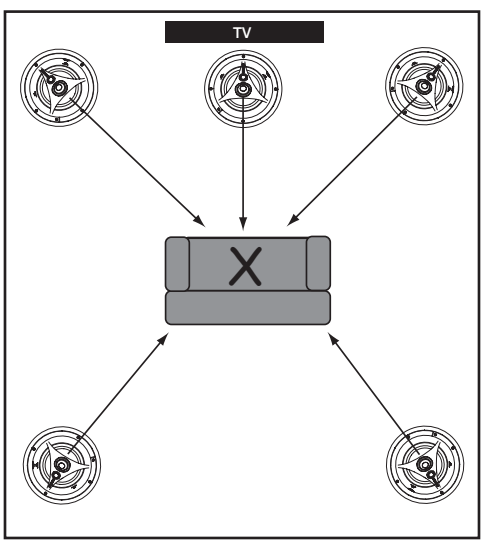
All TheaterPoint speakers include ELAN's exclusive TheaterPointer Laser Pointing Device for precise tweeter adjustment. Because the human ear relies heavily on high frequencies to locate sound, and because high frequency drivers create a narrow soundfield, it is important to align tweeters precisely. Stereo imaging, surround sound effects, and dialogue are greatly improved by correctly pointing the TH800C's tweeter!

To Correctly Point the Tweeter:

1. Move the tweeter so that it points toward the desired listening position.



2. Turn TheaterPointer on by pressing the power button.
3. Place the TheaterPointer into the triangular hole located on the tweeter's protective cover. Notice the red spot of light coming from the TheaterPointer.
4. Fine-tune the position of the tweeter such that the red spot of light is pointing directly at the center of the listening area.
5. Repeat this process for each TheaterPoint speaker in the system.



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Setting Switches

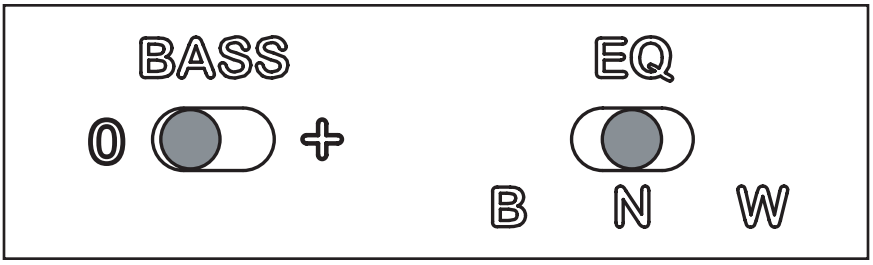
Once the speakers are wired, mounted, and positioned correctly, use the EQ switches to fine-tune the speakers based on local environmental variables such as hardwood floors, thick draperies, etc. The two EQ switches are labelled "**EQ**" (Equalizer) and "**BASS**". The **EQ** switch compensates for the "liveness" or "deadness" of the room while the **BASS** switch cuts bass by aproximately - 20dB.

EQ Switch

Select the **W** (Warm) position on the EQ switch to compensate for "live" rooms where sound bounces and reflects from hard surfaces like tile or hardwood floors, large glass surfaces/windows, stone or brick walls, etc. Select the **B** (Bright) position to compensate for "dead" rooms where sound is absorbed by soft materials like heavy drapes, thick carpeting, upholstered furniture, etc. Use the **N** (Neutral) position if no compensation is required.

BASS Switch

Select the **+** position for normal bass operation if the speaker is used full-range without a subwoofer. Select the **-** position to reduce bass frequencies by aprox. 20dB. The **-** option is designed to protect the the speaker during high volume operation and should only be used when a subwoofer is present in the system.



Painting

All ELAN TheaterPoint speakers can be finished to match any room décor. Their white, textured frames and no-rust aluminum grilles readily accept most water-based interior latex and spray enamels. We recommend the grille and frame be painted separately. To aid in frame painting, a plastic paint shield is included that will protect the speaker baffle.

Painting Tips:

- If not using spray paint, it is recommend that the paint be thinned to prevent clogging of the speaker grille perforations.
- When painting, several light coats will yield the best results.

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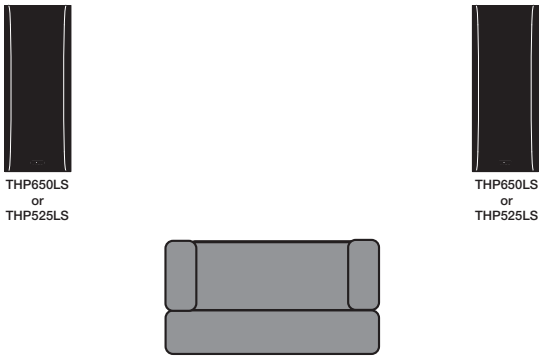
Applications

All TheaterPoint speakers have similar “voices” designed to work together to create a seamless, high-quality Home Theater or critical listening experience. ELAN strongly recommends installing Theater-Point speakers in matched groups (Left, Center, Right, Rear, Sub) in order to preserve the acoustic integrity of the source material. The following section describes each TheaterPoint speaker in appropriate applications with other TheaterPoint speakers.

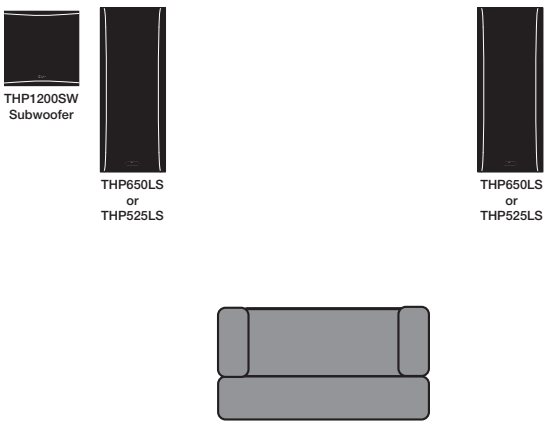
Stereo

Certain TheaterPoint speakers lend themselves very well to stereo critical listening applications. Please keep in mind that a defined stereo listening area must be present in order to acheive maximum benefit from stereo placement.

THP525LS/THP650LS



THP525LS/THP650LS/THP1200SW



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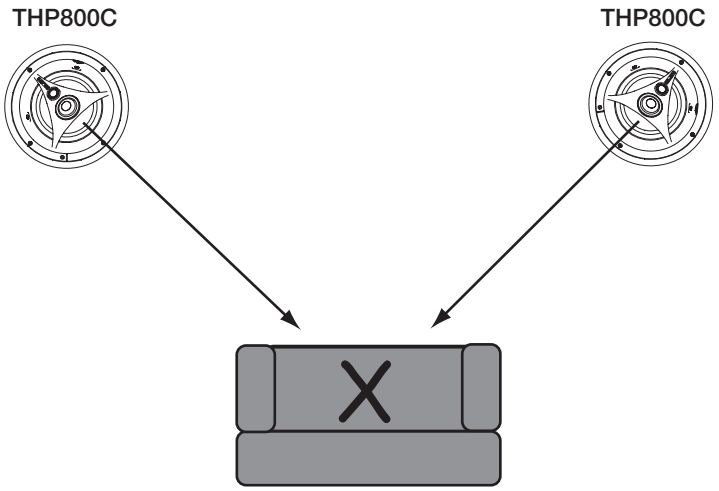
Stereo Applications (cont'd.)

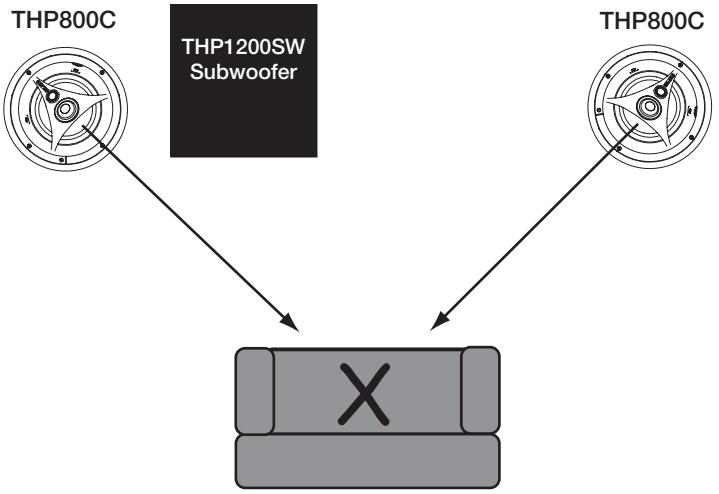
THP800C

Critcal listening areas require a well-defined listening position. Make sure to point the speakers toward the listening area as shown.



THP800C/THP1200SW

Add a THP1200SW subwoofer to increase bass response. This adds richness to the music and makes a huge improvement in sound quality.



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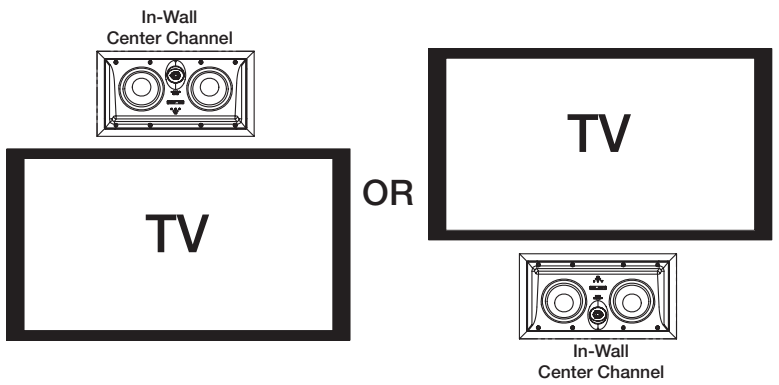
Home Theater

It is essential to use voice-matched speakers in any Home Theater application. Sound emanates from each speaker in turn, and all should sound the same. TheaterPoint speakers satisfy this requirement perfectly, and should be used in combinations shown in the following section.

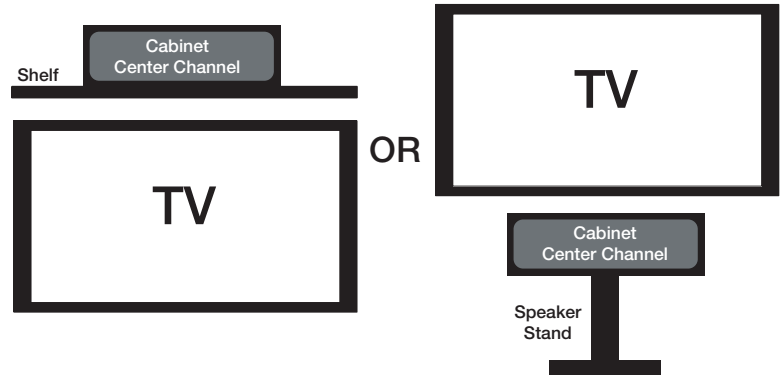
Center Channel Positioning

A center channel speaker should be placed as close as possible to the video display utilized in a Home Theater. In-wall center channel speakers should be mounted immediately above or below the screen as shown below. If using a cabinet speaker like ELAN's THP525LS or THP650LS as a center channel, position it on a stand immediately below the screen. A Center Channel speaker can also mount on a shelf above the screen - possibly in a cabinet or entertainment center.

In-Wall Center Channel



Cabinet Center Channel



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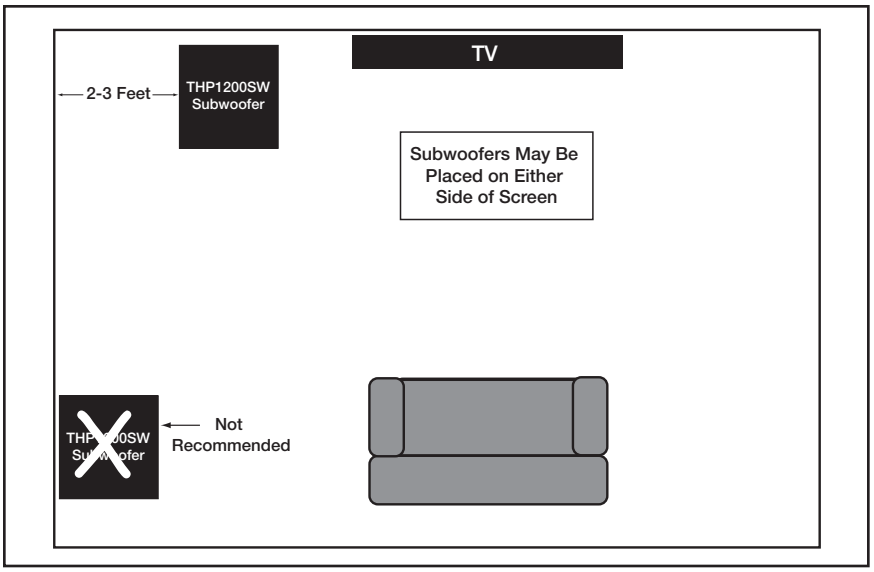
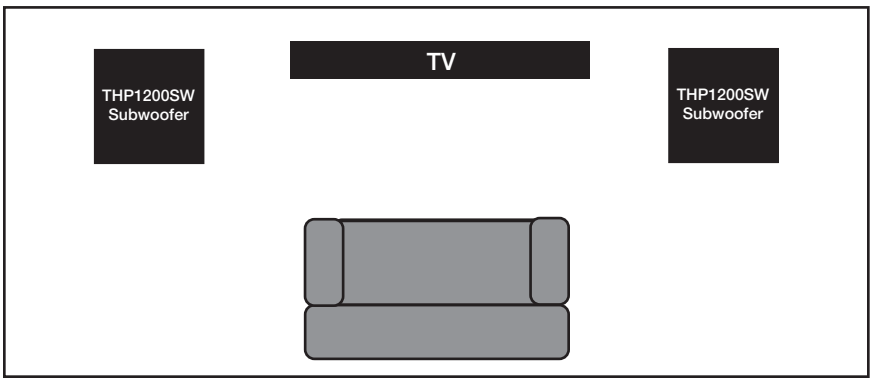
Subwoofer Positioning

Subwoofers are considered to be omnidirectional. They produce low bass frequencies that are not especially localized. The human ear does not rely on these frequencies to place sounds in space therefore, placement is not as important as with other types of speakers. Place subwoofers along the front wall of the room approximately 2-3 feet from the corners. Expect a 3-9dB bass boost if the subwoofer is placed directly in the corner of a room (called "corner loading"). It is usually not advisable to place subwoofers directly next to the seating position in a Home Theater.



Multiple Subwoofers

It is sometimes desirable to install multiple subwoofers for increased bass response in a Home Theater. Place the subwoofers equal distance from the screen in similar locations as shown below.



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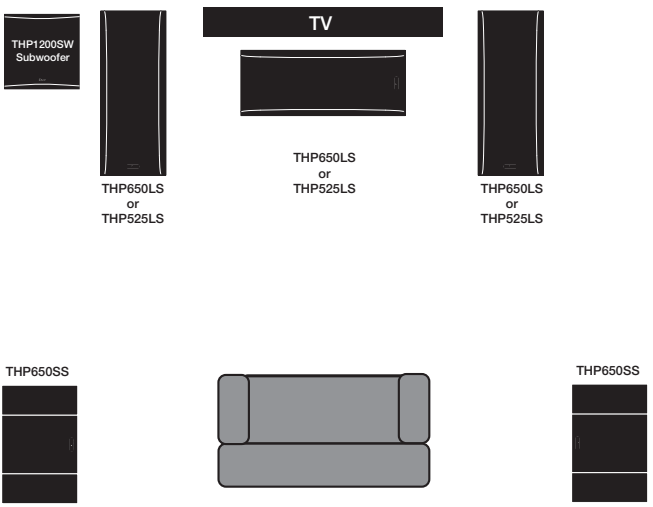
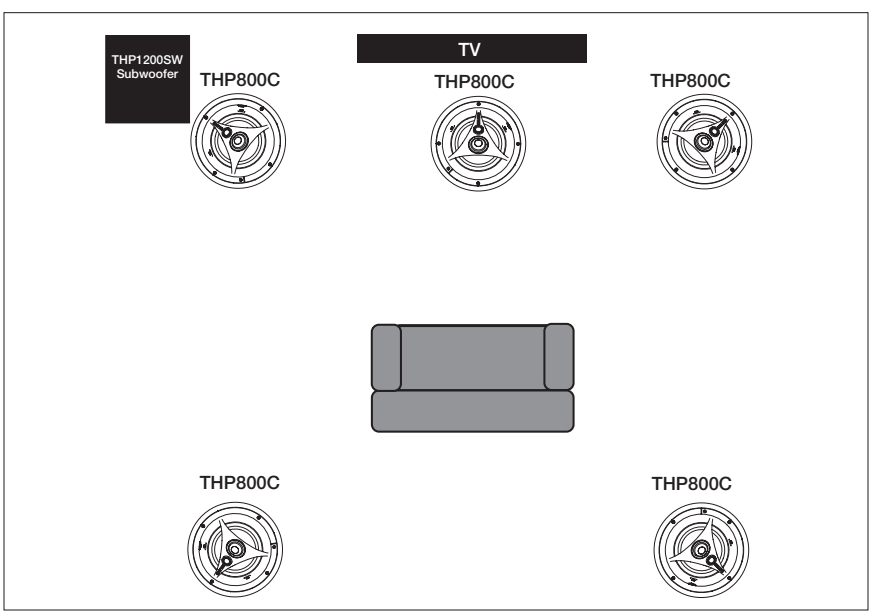
5.1 Surround Sound Applications

THP525LS/THP650LS - Free-Standing L/C/R
THP650SS - On-Wall Dipole Rear Side
THP1200SW - Subwoofer



THP800C - In-Ceiling L/C/R & Rear
THP1200SW - Subwoofer



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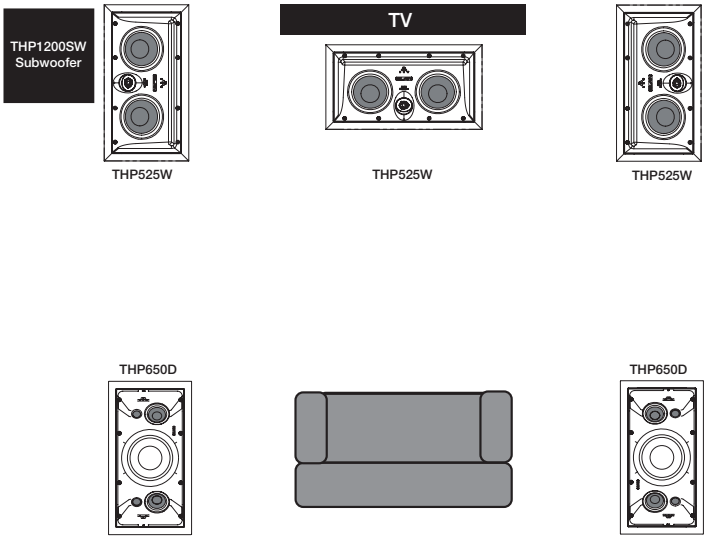
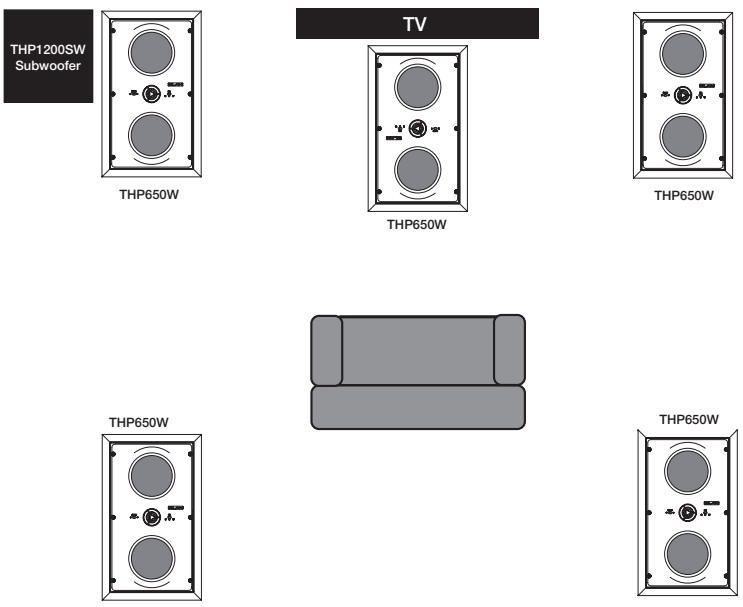
5.1 Applications (cont'd.)

THP525W - In-Wall L/C/R
THP650D - In-Wall Dipole Rear Side
THP1200SW - Subwoofer



THP650W - In-Wall L/C/R & Rear
THP1200SW - Subwoofer



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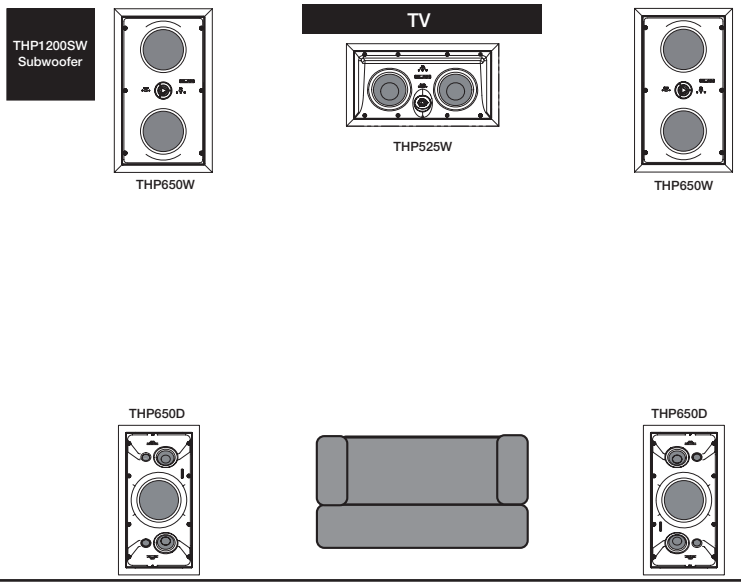
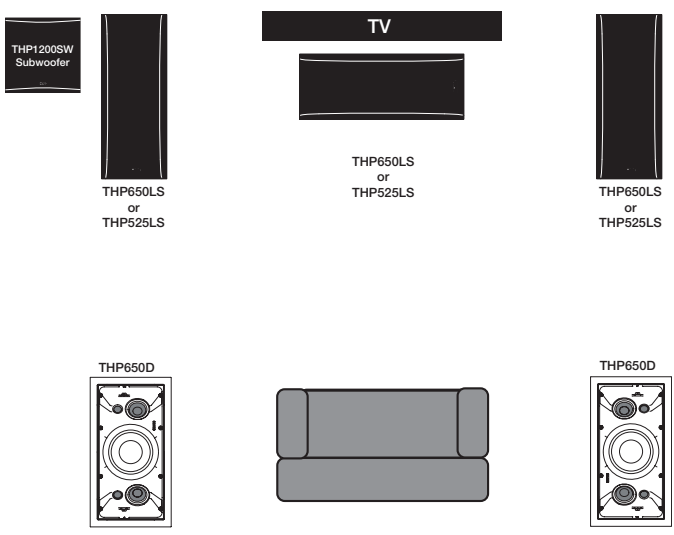
5.1 Applications (cont'd.)

THP650W - In-Wall Left/Right
THP525W - In-Wall Center
THP650D - In-Wall Dipole Rear Side
THP1200SW - Subwoofer



THP525LS/THP650LS - Free-Standing L/C/R
THP650D - In-Wall Dipole Rear Side
THP1200SW - Subwoofer



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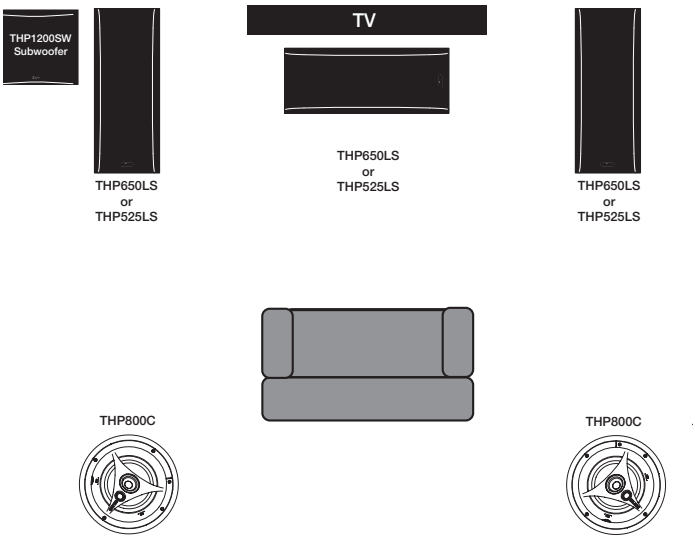
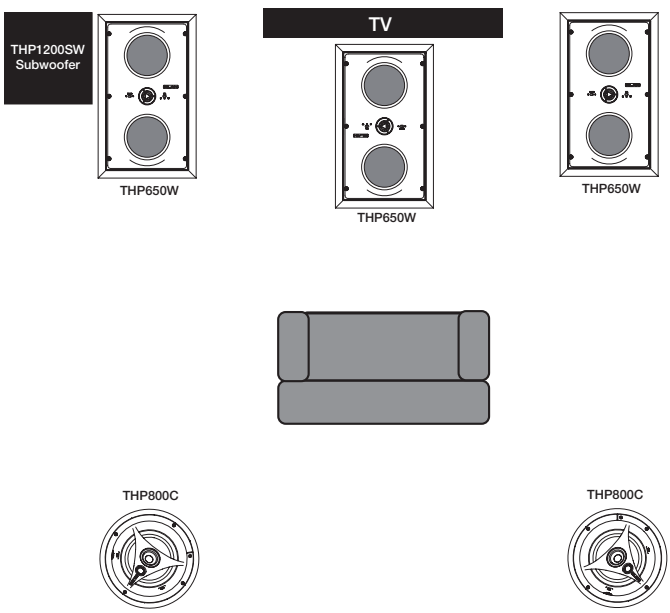
5.1 Applications (cont'd.)

THP525LS/THP650LS - Free-Standing L/C/R
THP800C - In-Ceiling Rear
THP1200SW - Subwoofer



THP650W - In-Wall L/C/R
THP800C - In-Ceiling Rear
THP1200SW - Subwoofer



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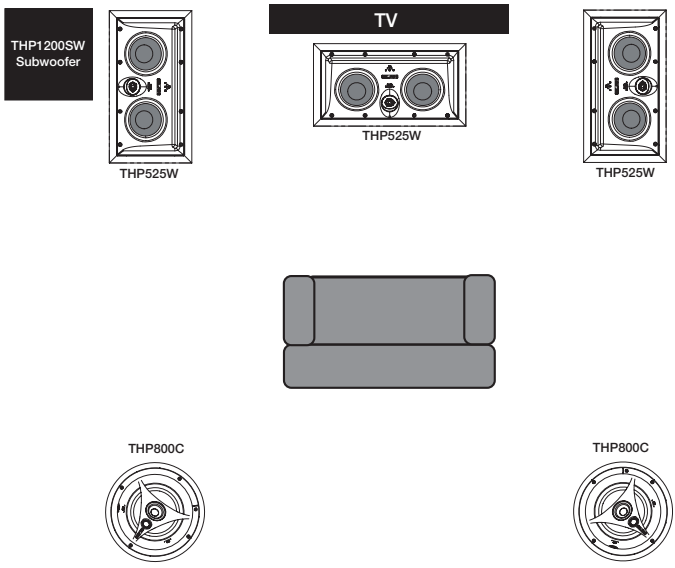
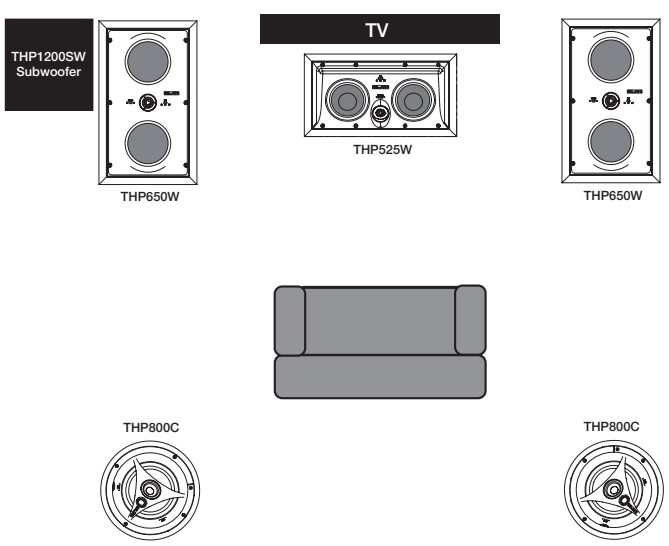
5.1 Applications (cont'd.)

THP525W - In-Wall L/C/R
THP800C - In-Ceiling Rear
THP1200SW - Subwoofer



THP525W - In-Wall Center
THP650W - In-Wall L/R
THP800C - In-Ceiling Rear
THP1200SW - Subwoofer



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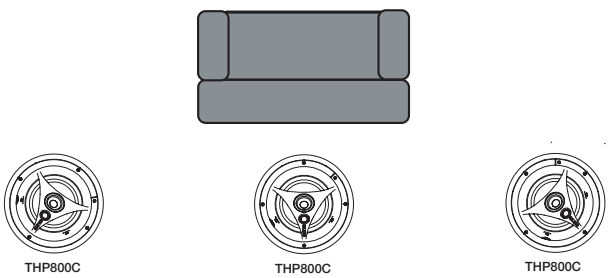
6.1/7.1 Surround Sound

6.1 and 7.1 surround sound systems utilize additional rear and/or rear side speakers to enhance the audio effects contained in a soundtrack. Any of the previous examples can easily become a 6.1 or 7.1 system by changing the configuration of the rear channels. The diagrams in this section show **rear** and **side rear** speakers only!

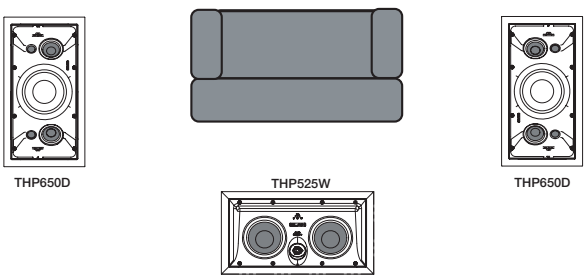
6.1 Systems

Typical 6.1 systems use two rear side speakers with a center rear speaker. Several logical combinations can be created using Theater-Point speakers as shown in the following examples.

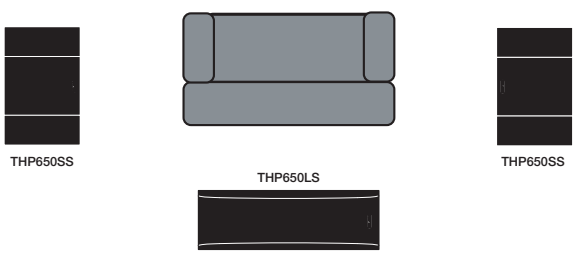
THP800C - In-Ceiling Rear



THP650D - In-Wall Rear Side
THP525W - In-Wall Rear Center



THP650SS - On-Wall Rear Side
THP525W - On-Wall Rear Center



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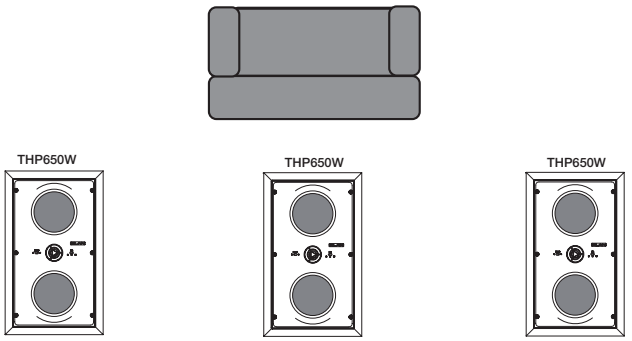
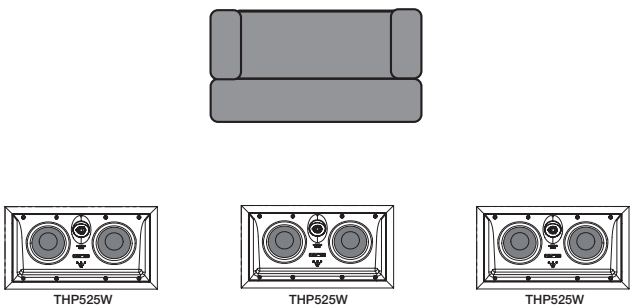
6.1 Applications (cont'd.)

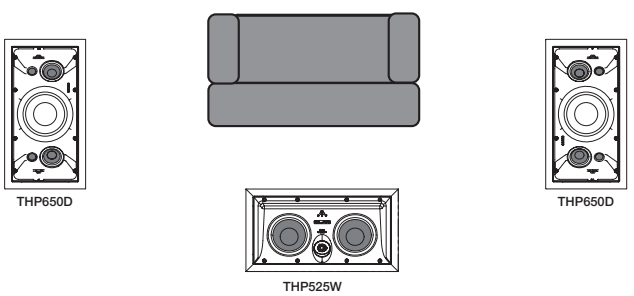
THP650W - In-Wall Rear



THP525W - In-Wall Rear



THP525W - In-Wall Rear Center
THP650D - In-Wall Rear Side



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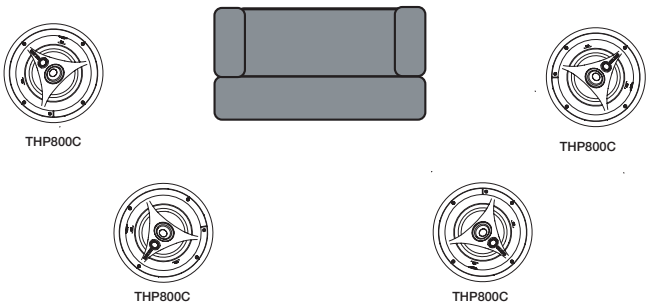
7.1 Systems

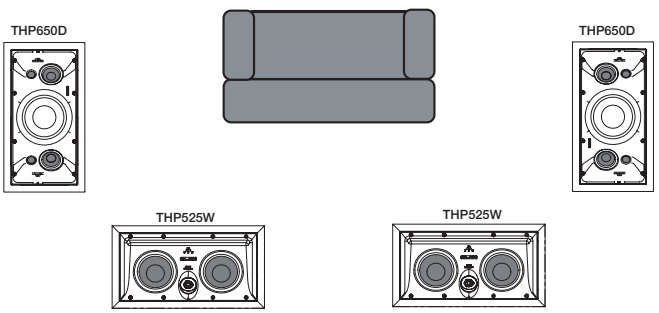
Use a total of four speakers for rear Surround effects when configuring 7.1 systems. Several logical combinations can be created using TheaterPoint speakers as shown in the following examples.

THP800C - In-Ceiling Rear and Rear Side



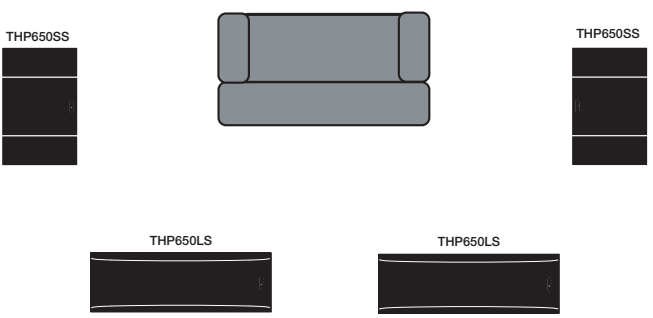
THP650D - In-Wall Rear Side Speakers

THP650W - In-Wall Rear Speakers



THP650SS - On-Wall Rear Side

THP650LS - On-Wall Rear



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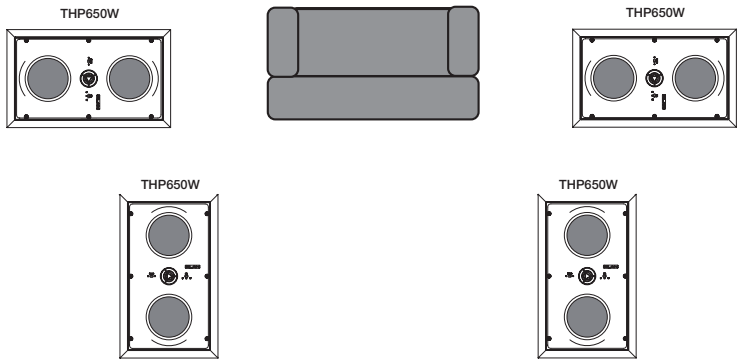
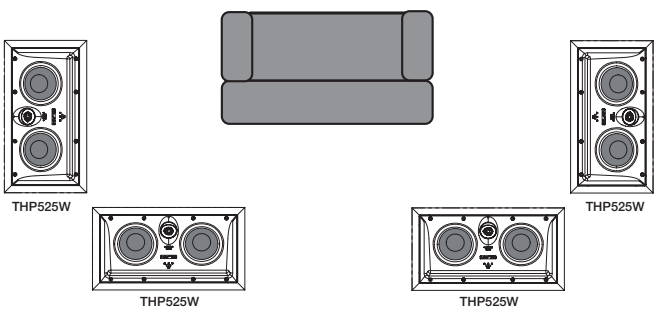
7.1 Applications (cont'd.)

THP650W - In-Wall Rear and Side

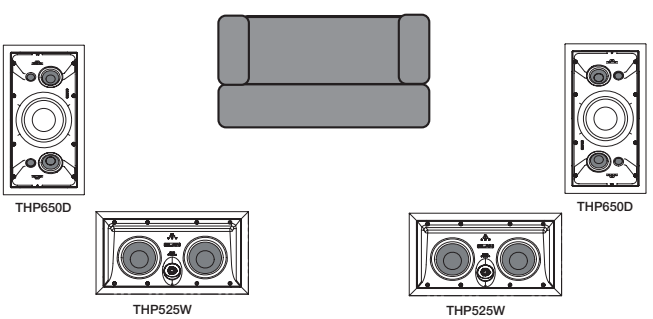


THP525W - In-Wall Rear and Rear Side



THP650D - In-Wall Rear Side

THP525W - In-Wall Rear



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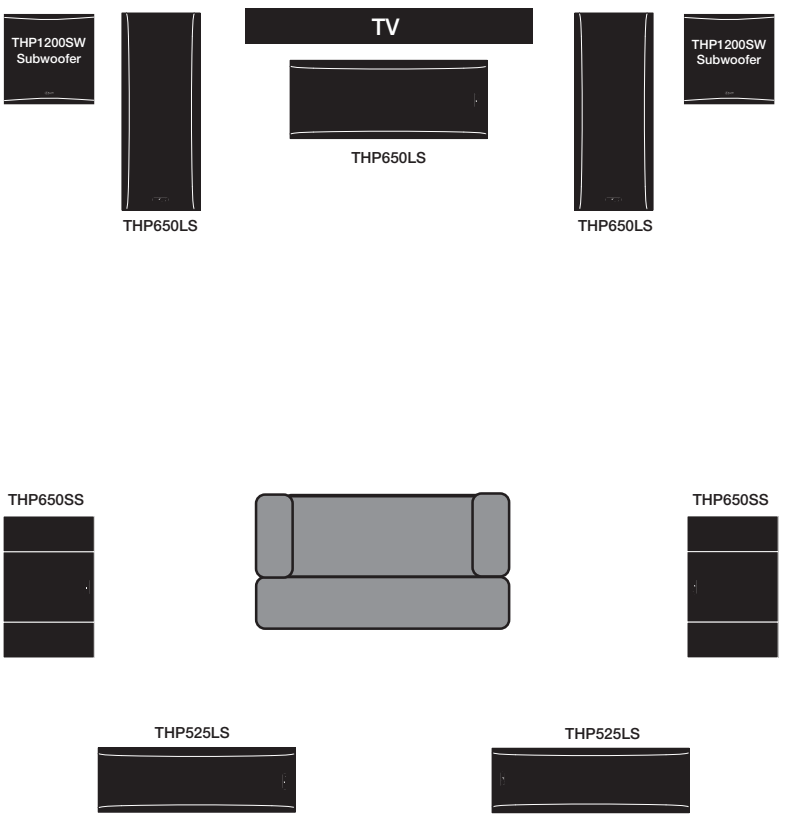
High Performance 7.1 Surround System

THP650LS - Free-Standing L/C/R
THP650SS - On-Wall Rear Side
THP525LS - On-Wall Rear
THP1200SW - Subwoofers



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Notes:

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Limited Lifetime Warranty

ELAN HOME SYSTEMS L.L.C. ("ELAN") warrants to the original purchaser only that THP800C speakers are free from defects in materials and workmanship provided that the product was purchased from an authorized ELAN Home Systems Dealer. If the purchaser discovers that such item was not as warranted above and promptly notifies ELAN in writing, ELAN shall repair or replace the item at the company's option. This warranty shall not apply (a) to equipment not manufactured by ELAN, (b) to equipment which shall have been installed by other than an ELAN authorized installer, (c) to installed equipment which is not installed to ELAN's specifications, (d) to equipment which shall have been repaired or altered by others than ELAN, (e) to equipment which shall have been subjected to negligence, accident, or damage by circumstances beyond ELAN's control, including, but not limited to, lightning, flood, electrical surge, tornado, earthquake, or other catastrophic events beyond ELAN's control, or to improper operation, maintenance or storage, or to other than normal use of service. With respect to equipment sold by, but not manufactured by ELAN, the warranty obligations of ELAN shall in all respects conform to the warranty actually extended to ELAN by its supplier. The foregoing warranties do not cover reimbursement for labor, transportation, removal, installation or other expenses which may be incurred in connection with repair or replacement.

Except as may be expressly provided and authorized in writing by ELAN, ELAN shall not be subject to any other obligations or liabilities whatsoever with respect to equipment manufactured by ELAN or services rendered by ELAN.

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